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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 9051 CS-32-031121 10/717,660 11/21/2003 Yoshihiro Fukano EXAMINER 22712 7590 12/17/2004 WALTON, GEORGE L PAUL A. GUSS PAUL A. GUSS ATTORNEY AT LAW PAPER NUMBER ART UNIT 775 S 23RD ST FIRST FLOOR SUITE 2

3753 DATE MAILED: 12/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/717,660	FUKANO ET AL
Office Action Summary	Examiner	Art Unit
	George L. Walton	3753
The MAILING DATE of this communication	appears on the cover sheet wit	h the correspondence address
Period for Reply		ONTHO) FROM
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. t. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	rply be timely filed r (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _		
·— ·	This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-11</u> is/are pending in the applicat	ion.	
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-7,9 and 10</u> is/are rejected.		
7)⊠ Claim(s) <u>8 and 11</u> is/are objected to.		
8) Claim(s) are subject to restriction an	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exam	niner.	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore	eian priority under 35 U.S.C. §	119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1.⊠ Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the		
application from the International Bu	reau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a	list of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	' — n N (Summary (PTO-413) s)/Mail Date
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 11/21/03. 	/	nformal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, and 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ochs. The piston is readable on elements 28 and 31' and the shaft is readable on element 25'. The buffer corrugated spring is readable on element 34 or 50-51 within space 45. The first and second diaphragms are readable on elements 36 and 35, respectively. Element 39 or 54 is readable as the detection port. Note that the type of gas utilized for the piston chamber through port 12 is obvious to one of ordinary skill in the art at the time the invention was made as recited in claim 10. Figure 4 teaches a metal spring F readable on claim 9.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ochs in view of Anderson. The above claim is readable on the patent to Ochs with the single exception of having a check valve in a detector or drain port. The patent to Anderson teaches the above exception. In view of the teaching of Anderson, it would be obvious to one of ordinary skill in the art, at the time the invention was made, to provide the above exception to the device of Ochs as taught by elements 134, 146 and 148, if desired. Such teaching provides no unobvious or unexpected result.

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George L. Walton whose telephone number is 571-272-4920. The examiner can normally be reached on M-F, 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on 571-272-4930. The fax phone number for the organization where this application or proceeding is

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assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Primary Examiner Art Unit 3753